

#Create Statements to generate required tables

#User Table

```
create table f16g321_user (user_name VARCHAR(20) not null,  
password VARCHAR(20) not null, role VARCHAR(20),  
last_logintime datetime,  
last_login_ip VARCHAR(20),  
CONSTRAINT Pk_User primary key (user_name));
```

#Course Table

```
create table f16g321_course (crn Numeric(10) not null,  
code VARCHAR(20) not null, description VARCHAR(50) ,  
CONSTRAINT Pk_Crn primary key (crn));
```

#Student Table

```
create table f16g321_student (uin Numeric(10) not null,  
last_name VARCHAR(20) not null,  
first_name VARCHAR(20),  
user_name VARCHAR(20) not null ,  
CONSTRAINT Pk_Uin primary key (uin));
```

#Instructor Table

```
create table f16g321_instructor (ins_id Numeric(10),  
last_name VARCHAR(20) not null,  
first_name VARCHAR(20),  
user_name VARCHAR(20) not null ,  
CONSTRAINT Pk_ins_id primary key (ins_id));
```

#Instructor and related Course Table

```
create table f16g321_ins_course (ins_id Numeric(10) ,  
crn Numeric(10) ,  
CONSTRAINT Pk_ins_crn primary key (crn,ins_id),  
CONSTRAINT Fk_ins foreign key (ins_id )  
REFERENCES f16g321_instructor(ins_id),  
CONSTRAINT Fk_crn2 foreign key (crn )  
REFERENCES f16g321_course(crn));
```

#Student and registered Course Table

```
create table f16g321_student_enroll (crn Numeric(10) ,  
uin Numeric(10) ,  
CONSTRAINT Pk_Crn primary key (crn,uin),  
CONSTRAINT Fk_uin foreign key (uin )  
REFERENCES f16g321_student(uin),  
CONSTRAINT Fk_CRN foreign key (crn )  
REFERENCES f16g321_course(crn));
```

#Test Table

```
create table f16g321_test (test_id VARCHAR(20) , crn Numeric(10) ,
```

```
start_time datetime, end_time datetime, duration time,  
CONSTRAINT Pk_testid primary key (test_id));
```

#Question Table

```
create table f16g321_questions ( question_id MEDIUMINT NOT NULL AUTO_INCREMENT,  
test_id VARCHAR(20),  
question_type VARCHAR(20),  
question_text text,  
correct_ans text,  
tolerance double,  
CONSTRAINT Pk_qid primary key (question_id),  
CONSTRAINT Fk_tid foreign key (test_id )  
REFERENCES f16g321_test(test_id));
```

#Feedback Table

```
create table f16g321_feedback (uin Numeric(10) ,  
question_id MEDIUMINT , ans_selected VARCHAR(20) ,  
CONSTRAINT Pk_feed primary key (question_id,uin),  
CONSTRAINT Fk_qid foreign key (question_id )  
REFERENCES f16g321_questions(question_id),  
CONSTRAINT Fk_uin3 foreign key (uin )  
REFERENCES f16g321_student(uin));
```

#Score Table

```
create table f16g321_scores (uin Numeric(10),  
test_id VARCHAR(20), score Numeric(10),  
CONSTRAINT Pk_score primary key (uin,test_id),  
CONSTRAINT Fk_tid1 foreign key (test_id )  
REFERENCES f16g321_test(test_id),  
CONSTRAINT Fk_uin1 foreign key (uin )  
REFERENCES f16g321_student(uin));
```